



CALUMET SPECIALTY PRODUCTS PARTNERS, L.P.

2780 Waterfront Pkwy. E. Dr. Suite 200 Indianapolis, IN 46214
 Phone: 317-328-5660 Fax: 317-328-5668 Sales: 1-800-437-3188 www.calumetspecialty.com

INTELLIGENT GEL TECHNOLOGY TYPICAL PROPERTIES

	Viscosity @ 25° C (cps)	Specific Gravity @ 25° C	Saybolt Color D-6045	Flash Point ° C ASTM D-92
■ Versagel® M (Mineral Oil) Mineral Oil (and) Ethlene/Propylene/Styrene Copolymer (and) Butylene/Ethylene/Styrene Copolymer				
M-200	20,000	0.85	+30	>175
M-500	50,000	0.85	+30	>175
M-750	75,000	0.85	+30	>175
M-1600	160,000	0.85	+30	>175
■ Versagel® MC (Isohexadecane) Isohexadecane (and) Ethylene/Propylene/Styrene Copolymer (and) Butylene/Ethylene/Styrene Copolymer				
MC-500	30,000	0.74	+30	>104
MC-750	42,000	0.74	+30	>104
ME-1600	55,000	0.74	+30	>104
■ Versagel® MD (Isododecane)				
MD-500	25,000	0.73	+27	>43
MD-1600	43,000	0.73	+27	>43
■ Versagel® ME (Hydrogenated Polyisobutene)				
ME-500	64,000	0.82	+30	>165
ME-750	100,000	0.82	+30	>165
ME-1600	143,000	0.82	+30	>165
■ Versagel® MP (Isopropyl Palmitate)				
MP-500	53,000	0.86	+27	>195
MP-750	110,000	0.86	+27	>195
MP-1600	177,000	0.86	+27	>195

Calumet Penreco Headquarters

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 Suite 200
 Indianapolis, IN 46214
 www.calumetspecialty.com

Calumet Penreco Customer Service

800-245-3952 • Karns City, PA
 800-437-3188 • Indianapolis, IN
 800-458-5845 • International

Manufacturing Locations

Dickinson, Texas USA
 Karns City, Pennsylvania USA

ISSUED VERSAGEL® PATENTS

Health & Beauty Aid Compositions

- United States	5,221,534	(Jun. 22, 1993)
- Europe	0/626,855	(Jan. 17, 2001)
- Canada	2,128,423	(Jun. 15, 1999)
- Japan	2,921,986	(Apr. 30, 1999)

Non-Aqueous Controlled Release Insect Repellent & Insecticide Gels

- United States	5,705,175	(Jan. 6, 1998)
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Transparent Gel Candles

- United States	5,879,694	(Mar. 9 1999)
- Australia	708,193	(Nov 11, 1999)
- Europe	0/871,692	(May 6, 2002)
- Mexico	210,115	(Sep. 4, 2002)

Transparent Gel Candles

- United States	6,066,329	(May 26, 2000)
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Solid and Semi-Solid Hydrocarbon Gels

- United States	6,340,467	(Jan. 22, 2002)
- Australia	717,789	(Jul. 13, 2000)
- New Zealand	313,378	(Jul. 6. 2000)
- Singapore	561,121	(Nov. 16, 1999)

Non-Aqueous Controlled Release Pest & Air Care Gels

- United States	5,871,765	(Feb. 16, 1999)
- Australia	717,806	(Jul. 3, 2000)
- Mexico	203,651	(Feb. 11, 2002)
- New Zealand	331,379	(Nov. 9, 2000)
- Singapore	55,671	(Nov. 16, 1999)

Hydrocarbon Gels as Suspending & Dispersing Agents

- United States	6,433,068	(Aug. 13, 2002)
- Australia	734,440	(Sep. 27, 2001)

Polymeric Candle Compositions

- United States	6,471,731	(Oct. 29, 2002)
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